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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/627,798

07/25/2003

Victor Hrid Pan

Pan 2 (LCNT/124991)

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EXAMINER

VU, MICHAEL T

ART UNIT

PAPER NUMBER

2617

MAIL DATE

DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/627,798	Applicant(s) PAN, VICTOR HRID	
	Examiner MICHAEL T. VU	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-9 and 11-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-9 and 11-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-3, 5-9 and 11-20 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-3, 5-9, 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glazko (US 2002/0160719) in view of Stein (US 2003/0008669), and further in view of Neufeld (US 2002/0067762).**

Regarding claims 1 and 13, Glazko teaches a method for assigning pseudorandom number offsets of a synchronized timing system to sectors of communication cells associated with base stations in a communications network (Figure #1, CDMA System included Base Stations or Cells, [0029, 0033-0037]) comprising the steps of: determining a minimum delay offset between pseudorandom number offsets that will avoid signal collision when the pseudorandom number offsets are assigned to

Art Unit: 2617

adjacent sectors of the same base station cell (Figure #1, CDMA System included Base Stations or Cells, [0011-0015, 0033-0040]);

But Glazko does not explicitly teach applying delay offsets of no less than the minimum delay offset and no more than two offsets greater than the minimum delay offset between pseudorandom number offsets assigned to adjacent sectors of the same base station cell; and

However, Stein teaches applying delay offsets of no less than the minimum delay offset [0048-0050] and no more than two offsets greater than the minimum delay offset between pseudorandom number offsets assigned to adjacent sectors of the same base station cell [0048-0052, 0070-0074] and [0086-0090], and

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Glazko, with Stein's teaching, in order to assigned to transmission sources such as base station based on identification codes that assigned the pseudorandom number (PN) phase adjustment in fine increments for avoiding collision or interference results in the wireless communication systems.

But Glazko and Stein do not clearly teach applying varied delay offsets between pseudorandom number offsets assigned to sectors of different base station cells.

However, Neufeld teaches applying varied delay offsets between pseudorandom number offsets assigned to sectors of different cells [0005-0007], and [0055-0057].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Glazko and Stein, with Neufeld's system, in

Art Unit: 2617

order to assigned a time offset that is intended to identify the serving pilot signal such as the pseudorandom number (PN) phase adjustment in fine increments for avoiding collision or interference results in the wireless communication systems.

Regarding claims 2 and 14, Glazko, Stein, and Neufeld teach the method of claims 1, 13 and further comprising the steps of: determining that the minimum delay offset is two (2) offsets [0048-0050]; and applying a delay offset of at least two (2) offsets [0049-0052] and no more than four (4) offsets between pseudorandom number offsets assigned to sectors of the same cell (See partition of different PN, [0048-0050, 0052-0056]) all of Stein.

Regarding claims 3 and 15, Glazko, Stein, and Neufeld teach the method of claims 1, 14 and further comprising the steps of: determining that the minimum delay offset is two (2) offsets [0048-0050]; and applying a delay offset of at least three (3) offsets [0048-0050], and [0052-0056] and no more than four (4) offsets between pseudorandom number offsets assigned to adjacent sectors of the same cell (See partition of different PN, [0052-0056]) all of Stein.

Regarding claims 5 and 17, The combination of Glazko, Stein, and Neufeld teach the method of claims 1, 16 and further comprising the steps of: determining that the minimum delay offset is two (2) offsets [0048-0050] ; and applying a delay offset of at least three (3) offsets [0048-0050], and [0052-0056] and no more than four (4) offsets between pseudorandom number offsets assigned to adjacent sectors of the same cell (See partition of different PN, [0048-0050, 0052-0056]) all of Stein.

Regarding claims 6 and 18, Glazko, Stein, and Neufeld teach the method of claims 1, 16 and further comprising the step of: applying a varied delay offset of more than the minimum delay offset between pseudorandom number offsets assigned to sectors of different cells when the different cells are within five cells of each other (See partition of different PN, [0048-0050, 0052-0056]) all of Stein..

Regarding claims 7 and 19, The combination of Glazko, Stein, and Neufeld teach the method of claims 6, 18 and further comprising the step of: applying a varied delay offset of at least ten (10) offsets between pseudorandom number offsets assigned to sectors of different cells when the different cells are within five cells of each other (See partition of different PN, [0048-0056]) all of Stein.

Regarding claim 8, The combination of Glazko, Stein, and Neufeld teach the method of claim 6 and further comprising the steps of: determining that the minimum delay offset is two (2) offsets [0048-0050]; and applying a delay offset of at least two (2) offsets [0048-0050], and [0052-0056] and no more than four (4) offsets between pseudorandom number offsets assigned to adjacent sectors of the same cell (See partition of different PN, [0048-0050, 0052-0056]) all of Stein.

Regarding claim 9, The combination of Glazko, Stein, and Neufeld teach the method of claim 6 and further comprising the steps of: determining that the minimum delay offset is two (2) offsets [0048-0050]; and applying a delay offset of at least three (3) offsets [0048-0050], and [0052-0056] and no more than four (4) offsets between pseudorandom number offsets assigned to adjacent sectors of the same cell (See partition of different PN, [0048-0052]) all of Stein..

Regarding claim 11, The combination of Glazko, Stein, and Neufeld teach the method of claim 6 and further comprising the steps of: determining that the minimum delay offset is two (2) offsets [0048-0052]; and applying a delay offset of at least two (2) offsets [0048-0050], and [0052-0056] and no more than three (3) offsets between pseudorandom number offsets assigned to adjacent sectors of the same cell (See partition of different PN, [0048-0056]) all of Stein.

Regarding claims 12 and 20, Glazko, Stein, and Neufeld teach the method of claims 1, 16 and further comprising the step of assigning the pseudorandom number offsets to the sectors in a 25 spatial reuse pattern [0006-0009, 0040-0047] of Glazko.

Regarding claim 16, Glazko, Stein, and Neufeld teach the network of claim 13 and further comprising: the pseudorandom number offsets that are assigned to adjacent sectors of the same cell being applied with delay offsets therebetween of more than the minimum delay offset [0033-0035, 0037-0040], and [0045-0047] of Glazko.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within

Art Unit: 2617

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Vu whose telephone number is (571)272-8131. The examiner can normally be reached on 8:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Charles N. Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system.

Art Unit: 2617

Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MICHAEL T VU/
Examiner, Art Unit 2617

/Charles N. Appiah/
Supervisory Patent Examiner, Art Unit 2617